

# ACI 318-08 Building Code Requirements for Structural Concrete and Commentary

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This most recent edition of the ACI Building Code includes revisions to the 2005 edition. It provides minimum requirements for the design and construction of reinforced concrete structural elements. Written in such format that it may be adopted by reference in a general building code, the 22 chapters and 4 appendices include the latest revisions on a variety of topics. This publication is the most sought-after and most used structural design code. The fourth edition of the International Building Code (IBC 2009) will adopt ACI 318-08 by reference. This new edition of the ACI Building Code covers the materials, design, and construction of structural concrete used in buildings and where applicable in nonbuilding structures. The Code also covers the strength evaluation of existing concrete structures. Among the subjects covered are: drawings and specifications; inspection; materials; durability requirements; concrete quality, mixing, and placing; formwork; embedded pipes; construction joints; reinforcement details; analysis and design; strength and serviceability; flexural and axial loads; shear and torsion; development and splices of reinforcement; slab systems; walls; footings; precast concrete; composite flexural members; prestressed concrete; shells and folded plate members; strength evaluation of existing structures; provisions for seismic design; structural plain concrete; strut-and-tie modeling in Appendix A; alternative design provisions in Appendix B; alternative load and strength reduction factors in Appendix C; and anchoring to concrete in Appendix D. The quality and testing of materials used in construction are covered by reference to the appropriate ASTM standard specifications. Welding of reinforcement is covered by reference to the appropriate AWS standard. The Commentary includes background details or suggestions for carrying out the requirements or intent of the Code. Some of the considerations of the committee in developing the Code portion are



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